

1. ALEKSEYEV, M. G.; ZORYA, D. A.; VCVK, I. R.

2. USSR (600)

4. Paper Industry

7. Large-scale mechanization of the production line. Bum. prom. 27, No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

Vovk, L.M.

2

S/081/61/000/021/060/094
B138/B101

AUTHORS:

Gonikberg, M. G., Dorogochinsky, A. Z., Mitrofanov, M. G.,
Gavrilova, A. Ye., Kupriyanov, V. A., Mikhaylovskiy, V. K.,
Vovk, L. M.

TITLE:

Homogenous demethylation of toluene. Basic characteristics
of the process at 750 to 790°C

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 319, abstract
21L34 (Neftekhimiya, v. 1, no. 1, 1961, 46 - 53)

TEXT: The homogenous demethylation of toluene (I) in a flow system is
studied at temperatures of 750 to 790°C and pressures of ≤ 40 atm. At a
volumetric feed rate of 5 to 7 hr^{-1} the conversion of I into C_6H_6 is as
much as 75 to 80 % in one run and the C_6H_6 yield is 90 mole%, calculated
from the amount of I which has undergone reaction. By rectifying the
products of the reaction in a column with a theoretical efficiency of 20

Card 1/2

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S/081/000/021/060/094
B138/B101

Homogenous demethylation of toluene...

plates, very high purity C_6H_6 is produced, and a small quantity of a mixture of high boiling-point aromatic hydrocarbons containing $\geq 50\%$ diphenyl. The possibility is discussed, of using the bimolecular reaction equation to provide an approximate description of the kinetic laws governing this process. [Abstracter's note: Complete translation.]

Card 2/2

DOROGOCHINSKIY, A.Z.; GONIKBERG, M.G.; MITROFANOV, M.G.; KUPRIYANOV, V.A.;
VOVK, L.M.

Homogeneous demethylation of toluene. Report No. 2. Experi-
ments with gas cycling. Neftekhimiia 1 no.4:501-504
(MIRA 16:11)
Jl-Ag '61.

1. Groznyenskiy neftyanoy nauchno-issledovatel'skiy institut
1 Institut organicheskoy khimii AN SSSR imeni N.D.
Zelinskogo.

GONIKEBERG, M.G.; DOROGOCHINSKIY, A.Z.; MITROFANOV, M.G.; GAVRILOVA, A.Ye.;
DRONIN, A.P.; KUPRIYANOV, V.A.; MAKAR'YEV, S.V.; ZAMANOV, V.V.;
VCVK, L.M.

Thermal dealkylation of aromatic hydrocarbons. Khim.i tekhn.topl.
(MIRA 15:4)
i masel 7 no.4:11-15 Ap '62.
(Hydrocarbons) (Alkyl groups)

GONIKBERB, M.G.; DOROGOCHINSKIY, A.Z.; MITROFANOV, M.G.; GAVRILOVA, A.Ye.;
KUPRIYANOV, V.A.; MIKHAYLOVSKIY, V.K.; VOVK, L.M.

Homogenous demethylation of toluene. Report No.1. Basic indices
of the process at 750-790 C. Neftekhimiia 1 no.1:46-53 Ja-F
'61. (MIRA 15:2)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo
1 Groznenskiy neftyanoy nauchno-issledovatel'skiy institut.
(Toluene) (Methyl group)

Vovk, L.M.

S/065/62/000/004/001/004
E075/E136

AUTHORS: Gonikberg, M.G., Dorogochinskiy, A.Z.,
Nitrofanov, N.G., Gavrilova, I.Ye., Dronin, A.P.,
Kupriyanov, V.A., Makar'yev, S.V., Zamanov, V.V.,
and Vovk, L.M.

TITLE: A process of thermal dealkylation of aromatic
hydrocarbons

PERIODICAL: Khimiya i tekhnologiya topliv i masel,

no.4, 1962, 11-15

TEXT: As a result of investigations carried out in the
years 1953-1960 in IOKh AN SSSR and GrozNII, a technological
scheme was developed for an industrial process of thermal
dealkylation of monocyclic aromatics such as toluene and methyl-
naphthalene. A pilot plant for the process producing
30 000 tons of benzene per annum consists of a small number of
simple units. It contains a tubular furnace of only
3 mil. cal/hour capacity. The main production indices for the
plant are as follows: reactor pressure 50 atm; maximum
temperature 790 °C; separator temperature 35 °C;

Card 1/2 ✓

5

A process of thermal dealkylation... S/065/62/000/004/001/004
E075/E136

pressure in benzene column 0.1-0.3 kg/cm²; temperature in benzene column, top 87 °C, bottom 130 °C; pressure in the recycle stock separation column 0.1-0.3 kg/cm²; temperature in the recycle stock separation column, top 260°, bottom 304 °C; molar ratio hydrogen/feedstock 4:1; space velocity of feed 4.0 h⁻¹; consumption of hydrogen 2.1% wt of feedstock; yield of benzene 78.7% wt of toluene. It was calculated that high grade benzene produced by the process from petroleum derived toluene is considerably cheaper than that obtained currently in the coking industry. It was established that thermal demethylation of methyl naphthalenes (700 °C, 50 atm) gives naphthalene with a yield of ca. 50% wt of feedstock after one cycle. The most suitable raw materials for the process are aromatic products obtained during reforming, pyrolysis and catalytic cracking processes. It is expected that the dealkylation process will constitute an important source of benzene and naphthalene for the Soviet petro-chemical industry.

There are 1 figure and 1 table.

Card 2/2

VOVK, S.I.; VOVK, M.A.

Effect of penicillin therapy upon certain indexes of reactivity of the
organism. Medich.shur. 22 no.4:70-79 '52. (MLRA 6:10)

1. Instytut klinichnoyi fisiolohiyi im. akad. O.O. Bohomol'tsya AN UkrSSR.
(Penicillin)
2. Kyiv's'kyy medychnyy instytut.

VOVK, M.P., geroy Sovetskogo Soyuza gvardii polkovnik.

In the region of the village of Teploye. Artill. zimr. no. 2:25-27
P '58. (MIRA 11,")

(Russia--Army--Artillery)
(World War, 1939-1945--Campaigns--Eastern)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

VOVK, N. (Kerch')

Once more about competitions, Voen. znan. 41 no.9:18-19 S '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

Vovk, N. K.

Vovk, N. K. "The effectiveness of various biological feed-processing methods in feeding growing hogs," Trudy Dnepropetr. s.-kh. in-ta, Vol. II-III, 1948, p. 57-75,
- Bibliog: 11 items.

SO: U-3261, 10 April 53 (Letopis 'Zhurnal 'nykh statey, No. 12, 1949)

VOVK. N. K.

Vitamins

Effect of vitamin A in rations from local feeds on lard formation in fattening swine
on farms of Dnepropetrovsk Province. Trudy Dnepr. sel'khoz. inst. 4, 1951

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

VOVK, O.P.; DOVGIALLO, M.O. [Dovhiallo, M.O.]; IUTSIK, I.S. [Iutsyk, I.S.];
KOROL'KOV, V.X.; FONKICH, M.Ye [Fonkych, M.IE.].

Practical studies of electric engineering in secondary schools; from
experience in teaching it. Nauk. zap. ChDPI 11:83-121 '57.
(Electric engineering--Study and teaching) (MIRA 11:5)

VOVK, O.O., gornyy inzh.

With fire and water. Nauka i zhyttia 11 no. 4:24 Ap '61.
(MIRA 14:5)
(Krivoy Rog Basin—Rock drills)

VOVKE, I. S.

"Ecological Conditions for Raising Carp (*Cyprinus Carpio L.*) in the Reservoirs
of the Ukrainian SSR." Cand Biol Sci, Inst of Hydrobiology, Acad Sci, Ukrainian
SSR, Kiev, 1953. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (13) SO: Sum. 598, 29 Jul 55

Vovk, P.S., kand. biol. nauk

Conference on the acclimatization of Amur fishes in reservoirs
of European U.S.S.R. Visnyk AM URSSR 29 no. 6:61-63 Je '58.
(MIRA 11:?)
(Fish culture)

Vovk, P.S.

Ecological conditions of pond carp culture in the Ukrainian S.S.R.
Trudy Inst.gidrobiol.AN URSR no.32:125-148 '55. (MLRA 9:9)
(Ukraine--Fish culture) (Carp)

VOVK, P.S.

Results of investigations completed by the Institute of Hydrobiology
of the Academy of Sciences of the Ukrainian S.S.R. on the development
of the brood stock of phytophilous fishes of the Amur River in ponds
of the Ukrainian S.S.R. Vop. ekol. 5:29-30 '62. (MIRA 16:6)

1. Institut hidrobiologii AN UkrSSR, Kiyev.
(Ukraine--Animal introduction)
(Ukraine--Carp)

LEBEDEV, A., polkovnik; VOVK, S., podpolkovnik

The most important form of political lectures. Komi.Vooruzh.Sil
1 no.4:39-44 F '61. (MIRA 14:8)
(Russia--Armed forces--Political activity)

VOVK, S.I.

Antigenic properties of the physiological system of connective tissue
and the specificity of antiraticular cytotoxic serum. Medich.zhur.
16:214-247 '47. (MIRA 10:12)

1. Z viddilu patologii (zav. viddilu - chlen-kor. AN URSR, prof. Ye.O.
Tatarinov) Institutu eksperimental'noi biologii i patologii Ministerst-
va okhoroni zdorov'ya URSR (direktor - akad. O.O.Bogomolets' [deceased])
(CONNECTIVE TISSUES) (SERUM)

VOVK, S.I.

VOVK, S.I.

Organ specific properties of nephrotoxic serums. Medich.zhur. 16:
(MIRA 10:12)
248-268 '47.

1. Z kafedri patologichnoi fiziologii (zav. - chl.-kor. AN URSR prof.
Ye.O.Tatarinov) Kiiv's'kogo ordena Trudovogo Chervonogo Prapor'a
medichnogo institutu im. akad. O.O.Bogomol'tsaya.
(SERUM) (ANTIGENS AND ANTIBODIES)

1. VOVK, S. I.
2. USSR 600
4. Penicillin
7. Data on the study of the effect of penicillin upon the reactivity of the organism.
Second communication, Medich. zhur, 21, No. 2, 1951.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unc1.

VOVK, S.I.

Penicillin

Study of the effect of penicillin upon the organism's reactivity. Medich. zhur.
20 no. 4, 1952.

* Monthly List of Russian Accessions, Library of Congress, August , 1992. UNCLASSIFIED

VOVK, S.I.; VOVK, M.A.

Effect of penicillin therapy upon certain indexes of reactivity of the
organism. Medych.shur. 22 no.4:70-79 '52. (MLRA 6:10)

1. Instytut klinichnoyi fiziologchiyi im. akad. O.O. Bohomol'tsya AN UESR.
(Penicillin)
2. Kyivs'kyy medychnyy instytut.

VOVK, S.I.

Antireticular cytotoxic serum and ATsS therapy. Medich. zhur. 23
(MLRA 812)
no.1:83-88 '53.
(SERUM THERAPY)

VOVK, S.I.

Disorders in the conditioned reflex activity caused by the action of antigens on the organism; effect of immunization with the typhoid vaccine on the conditioned reflex activity. *Fiziol. zhur. [Ukr]* 4 no.6: 783-790 N-D '58. (MIRA 12:3)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya kompensatornykh i zashchitnykh funktsiy.
(CONDITIONED RESPONSE) (TYPHOID FEVER--PREVENTIVE INOCULATION)

VOVK, S.I.

Disorders in the conditioned reflex activity of the organism due to the action of antigens. Report No.2: Effect of immunization with ram erythrocytes on the conditioned reflex activity. Fiziol. zhur. [Ukr.] 5 no.3:357-363 My-Je '59. (MIRA 12:10)

1. Institut fiziologii im. O.O.Bogomol'tsya AN URSR, laborato-
riya kompensatornikh i zakhisnikh funktsiy.
(CONDITIONED RESPONSE) (ANTIGENS AND ANTIBODIES)

VOVK, S.I.

Typological characteristics of the phagocytic activity of blood
leucocytes. Fiziol.zhur. [Ukr.] 5 no.4:492-499 Jl-Ag '59.
(MIRA 12:11)
1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, laboratoriya
kompensatornykh i zashchitnykh funktsiy.
(PHAGOCYTOSIS)

VOVK, S.I.

Immunogenesis and types of higher nervous activity. Fiziol. zhur.
[Ukr.] 5 no.6:781-787 N-D '59. (MIRA 13:4)

1. Institut fisiologii imeni A.A. Bogomol'tsa Akademii nauk USSR,
laboratoriya zashchitnykh i kompensatsionnykh funktsiy.
(IMMUNITY) (TEMPERAMENT)

KAVETSKIY, Rostislav Yevgen'yevich, akademik; SOLODYUK, Nadezhda Filimonovna; VOVK, Semen Ivanovich; KRASNOVSKAYA, Marian Solomonovna; DZGOYEVA, Tamara Aleksandrovna; YANKOVSKAYA, Z.B., red.izd-va; LISOVETS, A.M., tekhn. red.

[Body reactivity and the type of nervous system] Reaktivnost' organizma i tip nervnoi sistemy. Kiev, Izd-vo Akad. nauk USSR, 1961. 326 p. (MIRA 15:4)

1. Akademiya nauk USSR (for Kavetskiy). (PHYSIOLOGY)
(NERVOUS SYSTEM)

VOVK, S.I.

Individual characteristics of the reactivity of the organism and
the toxic infection process. Fiziol. zhur. [Ukr.] 7 no.3:409-416
My-Je '61. (MIRA 14:5)

1. Laboratoriya kompensatornykh i zashchitnykh funktsii Instituta
fiziologii im. A.A.Bogomol'tsa AN USSR, Kiyev.
(STAPHYLOCOCCAL INFECTIONS) (NERVOUS SYSTEM)

VOVK, S.I.

Changes in the content of leucocytes in the blood under the effect of adrenaline depending on the type of the nervous system.
Fiziol. zhur. [Ukr.] 11 no.6:756-760 N-D '65.

(MIRA 19:1)

1. Laboratoriya po izucheniyu tipov vyschey nervnoy deyatel'nosti Instituta fiziologii im. A.A. Bogomol'tsa AN UkrSSR, Kiyev. Submitted November 24, 1964.

VOVK, S.V., aspirant

Determining parameters of the dynamic state of a logging truck train during the process of its starting and gaining speed. Les., bum. i der. prom. no.1:64-71 '65. (MIRA 18:12)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

Volk T. L.

U.S. R. A.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

VOK, TS. L.

USSR/Minerals - Argillaceous minerals

Card 1/1 Pub. 22 - 42/50

Authors : Spiro, N. S.; Gramberg, I. S.; and Vok, Ts. L.

Title : Changes in chemical composition of argillaceous minerals

Periodical : Dok. AN SSSR 100/1, 159-161, Jan. 1, 1955

Abstract : Mineralogical data are presented regarding the changes occurring in the chemical composition of argillaceous (clayey) minerals. Two USSR references (1931 and 1951). Diagram.

Institution : The Arctic Scientific Research Institute of Geology

Presented by: Academician S. I. Mironov, June 3, 1954

SPIRO, N.S., GRAMBERG, I.S., VOVK, TS.L.

Composition of the absorbed bases of clayey rocks and the inter-
relations between the chemical and phase conditions of deposit
formation. Dekl. AM SSSR 105 no.4:800-802 D '55. (MLRA 9:3)

1. Predstavlene akademikem S.I. Mirenevym.
(Sedimentation and deposition) (Rocks, Sedimentary)

SPIRO, N.S.; VOVK, TS.L.

Reconstruction of the composition of waters of the Permian
Sea. Trudy NIIGA 98:63-72 '59. (MIRA 13:5)
(Geology, Stratigraphic) (Geochemistry)

SPIRO, N.S.; GRAMBERG, I.S.; VOVK, TS.L.

Use of manganese for the reconstruction of oxidation-reduction potential during the period of sediment formation. Trudy NIIGA 98:90-100 '59. (MIRA 13:5)

(Sedimentation and deposition)
(Oxidation-reduction reaction)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

VOVK, TS. L.

Distribution of vanadium, nickel, and chromium in sedimentary
rocks of different geological age. Trudy NIIGA 98:101-105
'59. (MIRA 13:5)

(Rocks, Sedimentary--Analysis)
(Geochemistry)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

VOVK, TS. L.

SPIRO, N.S.; GRAMBERG, I.S.; VOVK, TS. L.

Method for a comparative study of the chemical composition of terrigenous
sedimentary rocks. Trudy Nauch.-issl. inst. geol. Arkt. 86:9-112 '56.
(MIRA 10:3)

(Rocks, . Sedimentary--Analysis) (Geochemistry)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

VOK, T. V.

USER/Chemistry - Iodine exchange

Card 1/1 Pub. 116 - 3/25

Authors : Nazarenko, Yu. P., and Vovk, T.V.

Title : Isotopic iodine exchange between free iodine and silicon tetrachloride

Periodical : Ukr. khim zhur. 21/1, 16-20, 1955

Abstract : The reaction of isotopic iodine exchange between SiCl_4 and free iodine was investigated at temperatures of from 20 - 130° in a carbon bisulfide and xylol solution. No iodine exchange was observed between SIJ_4 and free iodine in the bisulfide solution at 20° during a period of 23.5 hours and at 45° during 1 hr. No noticeable change was observed in the xylol solution at 70 and 100° during 1 hr. The iodine semi-exchange period between SiCl_4 and free I in a xylol solution at 130° was established at 140 min. Fourteen references : 8 USSR, 3 USA and 3 German (1923-1953). Tables.

Institution : Acad. of Sc. Ukr-SSR., Institute of Gen and Inorg. Chem and the T. G. Shevchenko State University, Kiev.

Submitted : December 30, 1953

BERKUN, N.; VOVK, V.

Some simplifications in the filling out of forms required for the
transportation of bulk cargoes. Mor. flot 20 no. 11:8-9 N '60.
(MIRA 13:11)

1. Nachal'nik kommercheskogo otdela Azovskogo upravleniya Chernomor-
skogo gruzovogo morskogo porta (for Berkun). 2. Revisor kommerche-
skogo otdela Chernomorskogo gruzovogo morskogo porta (for Vovk).
(Merchant marine) (Bills of lading)

IVANCHENKO, Pavel Nikolayevich, kand. tekhn. nauk; SAVEL'YEV, Nikolay Mikhaylovich, inzh.; SHAPIRO, Boris Zakharovich, inzh.; VOVK, Vasiliy Grigor'yevich, inzh.; BELYAKOV, V.A., kand. tekhn. nauk, dots., retsenzent; YURKEVICH, M.P., inzh., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Electromechanical transmissions; theory and design] Elektro-mekhanicheskie peredachi; teoriia i raschet. Pod red. P.N. Ivanchenko, Moskva, Mashgiz, 1962. 431 p. (MIRA 15:6)
(Motor vehicles--Transmission devices)
(Electric driving)

VOVK, V.G., inzh.; POLEZHAYEV, A.A., kand.tekhn.nauk; FILOV, B.A., kand.
tekhn.nauk; TEVEROVSKIY, Yu.N., inzh.

Universal braking unit for studying machine transmissions.
Stroili.dorogmash. 6 no.813-21 Ag '61. (MIRA 14:8)
(Machinery—Transmission devices)

VOVK, Viktor, dr.

Dr. Stanko Kmet is seventy. Farmaceut vest 14 no.10/12:261-262
163.

BUCHNEV, K.N., prof.; SHAKHMATOV, M.M., kand. veterinarnykh nauk; TITOV, V.L., nauchnyy sotrudnik; MEN'SHIKOV, L.F., nauchnyy sotrudnik; KRIVENKO, O.P., vrach-laborant; YOVK, V.I., vrach-laborant; LAISHEVA, M.M., vrach-laborant; POLUBOYAROVA, G.V., vrach-laborant

Diagnosis of rabies by precipitation reaction in agar gel.
Veterinariia 40 no.3:66-70 Mr '63. (MIRA 17:1)

1. Alma-Atinskiy zooveterinarnyy institut (for Buchnev).
2. Laboratoriya virusologii nauchno-issledovatel'skogo veterinarnogo instituta Kazakhskoy akademii sel'skokhozyaystvennykh nauk (for all except Buchnev).

VOVK, V.N.

Microspectral analysis of the EI437H alloy. Zav. lab. 30 no.6:
705-706 *64 (MIRA 17:8)

1. Elektrometallurgicheskiy zavod "Dneprospetsstal'" imeni
A.I. Kuz'mina.

VOVK, V.N.; GRIKIT, I.A.

Analysis of bronzes with the FES-1 device. Univ. lab. 30 no.6:
702-704 '64 (MIRA 17:8)

1. Ukrainskiy gosudarstvennyy proyektnyy institut tsvetnoy
metallurgii.

VOVK, V.N.; GOREVA, Ye.I.; KULIK, S.I.; LEUTA, T.M.

Experience gained in the use of two DFS-10 apparatus at the
Dneproprosstell' Plant. Izv. AN SSSR. Ser. fiz. 26 no.7:
907-913 Jl '62.

(Spectrum analysis—Equipment and supplies) (MIRA 15:8)

5 (2)

AUTHORS: Vovk, V. N., Savich, I. G. SOV/32-25-8-25/44

TITLE: Rapid Analysis of Steels on a Model of the Photo-electric Device of GOI Construction

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 969 - 970 (USSR)

ABSTRACT: In 1956 the model of a photo-electric multi-channel (8 channels) instrument for emission spectrum analysis was installed in the plant Dneproprospetsstal'. The instrument was developed in the Gosudarstvennyy opticheskiy institut (State Optical Institute) (Ref 1). Since May 1957 the instrument is in operation in one of the steel melting plants 40 - 50 m from the steel-melting furnace. The article contains a description of the observations made. Concerning mechanical requirements (jolts, etc) the instrument proved to be sufficiently stable and the measuring results were not influenced. The angle of inclination of the calibrating curves practically does not change during the operation which permits the use of the stable-diagram method. The operation diagrams were recorded according to the V, XII, XXI, and XXII-series of standard samples of the Ural'skiy institut metallov (Ural Institute of Metals) and according to samples of

Card 1/2

Rapid Analysis of Steels on a Model of the Photo-
electric Device of the GOI Construction SOV/32-25-8-25/44

the plant. The article contains the conditions under which the analysis of low- and medium alloyed steels was effected for Ni, Si, Mo, Mn, Cr, V, and W. The article also contains several details on the operation of the instrument (Table). The capacity of the instrument was too low for the determination of manganese and the analysis of high-speed steel for tungsten was not made because the accuracy of analysis was not sufficient. There are 4 tables and 1 Soviet reference.

ASSOCIATION: Zavod Dneprospetsstal' (Plant Dneprospetsstal')

Card 2/2

VUVK, Ya. K.

VOVK, Ya. K., kombayner.

Let's mill 15,000 centners grain. Mekh. sil'. hosp. 9 no. 1:13 Ja '58.
(MIRA 11:2)

1. Signaivs'ka mashinno-traktorna stantsiya, Cherkas'koi oblasti.
(Grain milling)

LYSAK, L.I.; VOVK, Ya.N.; KHANDROS, E.L.

Crystal structure of martensite in hardened steel. Fiz. met. i
metalloved. 19 no.6:933-935 Je '65. (MIRA 18:7)

1. Institut metallofiziki AN UkrSSR.

ACC NR: AT6036276

SOURCE CODE: UR/0000/66/000/000/0048/0052

AUTHOR: Lysak, L. I.; Vovk, Ya. N.

ORG: Institute of metal physics AN UkrSSR (Institut metallofiziki UkrSSR)

TITLE: New martensitic phase in manganese steel

SOURCE: AN UkrSSR. Struktura metallicheskikh splavov (Structure of metal alloys).
Kiev, Izd-vo Naukova dumka, 1966, 48-52

TOPIC TAGS: phase transition, martensitic steel, martensitic transformation, manganese steel, tempering, quenching

ABSTRACT: The authors investigated by x ray diffraction single crystals of manganese steels (0.6 to 0.8 % C, 7.5 to 8.5 % Mn) with austenitic structure at room temperature. On cooling the specimens from room temperature to the temperature of liquid nitrogen, at a rate of 55 degrees/min, they discovered at -160°C the formation of a new phase (in addition to the K' - and α_t phases) which they called K' -martensite. From measurements of the reflection angles, the authors conclude that the new patterns correspond to the reflection from a body-centered tetragonal lattice with the parameters $a_{Fe} < c_{K'} < c_{\alpha_t}$, $c_{K'} > a_{K'} > a_{Fe}$. $c_{K'}$ increases with increase of carbon content, whereas $a_{K'}$ does not change. The formation of the K' and α_t phases at temperatures below 0°C is attributed to the decomposition of K' -martensite. The volume

Card 1/2

ACC NR: AT6036276

changes as these transformations are brought into connection with the change of free energy. The increase of electrical resistance and of hardness on heating of tempered steel is also explained by the aforementioned decomposition of K' -martensite. The authors feel that, in the light of the discovery of the new phase, the conclusions made concerning the phase transformations in steel on the basis of magnetic properties alone should be reconsidered. Orig. art. has: 3 figures.

SUB CODE: 11 / SUBM DATE: 28Jun65 / ORIG REF: 005 / OTH REF: 001

Card 2/2

L 8081-66 EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/ERALC/
ACC NR: AP5027138

SOURCE CODE: UR/0126/65/020/004/0540-0546

AUTHOR: Lysak, L. I.; Vovk, Ya. N.

ORG: Institute for the Physics of Metals AN UkrSSR (Institut
metallofiziki AN UkrSSR)

TITLE: The nature of phase transitions in the hardening of manganese
steel

SOURCE: Fizika metallov i mettallovedeniye, v. 20, no. 4, 1965,
0540-0546

TOPIC TAGS: work hardening, phase transition, manganese steel,
austenite steel, martensite steel

ABSTRACT: It has been determined previously that at negative tempera-
tures, in addition to the kappa and the alpha phases, there is formed
still another new phase, called the kappa' or kappa'-martensite phase.
Experiments have shown that the kappa'- martensite lattice is oriented
with respect to the austenite lattice in the same manner as the kappa
and alpha lattices. In the work described in this article, samples
were cooled suddenly from room temperature to -160° (at a rate of 55
degrees/min) and were photographed at this temperature. The photo-
graphs showed comparatively narrow patches of kappa'-martensite. The

UDC: 621.785.6

Card 1/2

L 8081-66

ACC NR: AP5027138

same samples were then heated to temperatures of -70° , -35° , 0° , and 20° , held for 2.5 hours, and photographed at each temperature. The x-ray photos show that with heating to a temperature of -70° , the patch of (002) kappa'-martensite extends toward the side of lower angles of reflection. At -35° , it extends even further to the same side, and in addition, there is formed a second washed out patch close to the iron line. In general, the observations indicate that, on heating kappa'-martensite at negative temperatures, there takes place the transition of this phase to the kappa and alpha phases. The data obtained in the present work make it possible to explain the failure of efforts to find a reverse martensite transition in steel. The fact is that attempts were made to find, not the reverse martensite transition of the kappa phase to the gamma phase, but the transition of the products of the decomposition of the kappa'-martensite phase to the austenite phase. To establish a reverse martensite transition, it would be necessary to prevent the decomposition of the kappa phase into the kappa and alpha phases. Orig. art. has: 2 figures and 1 table.

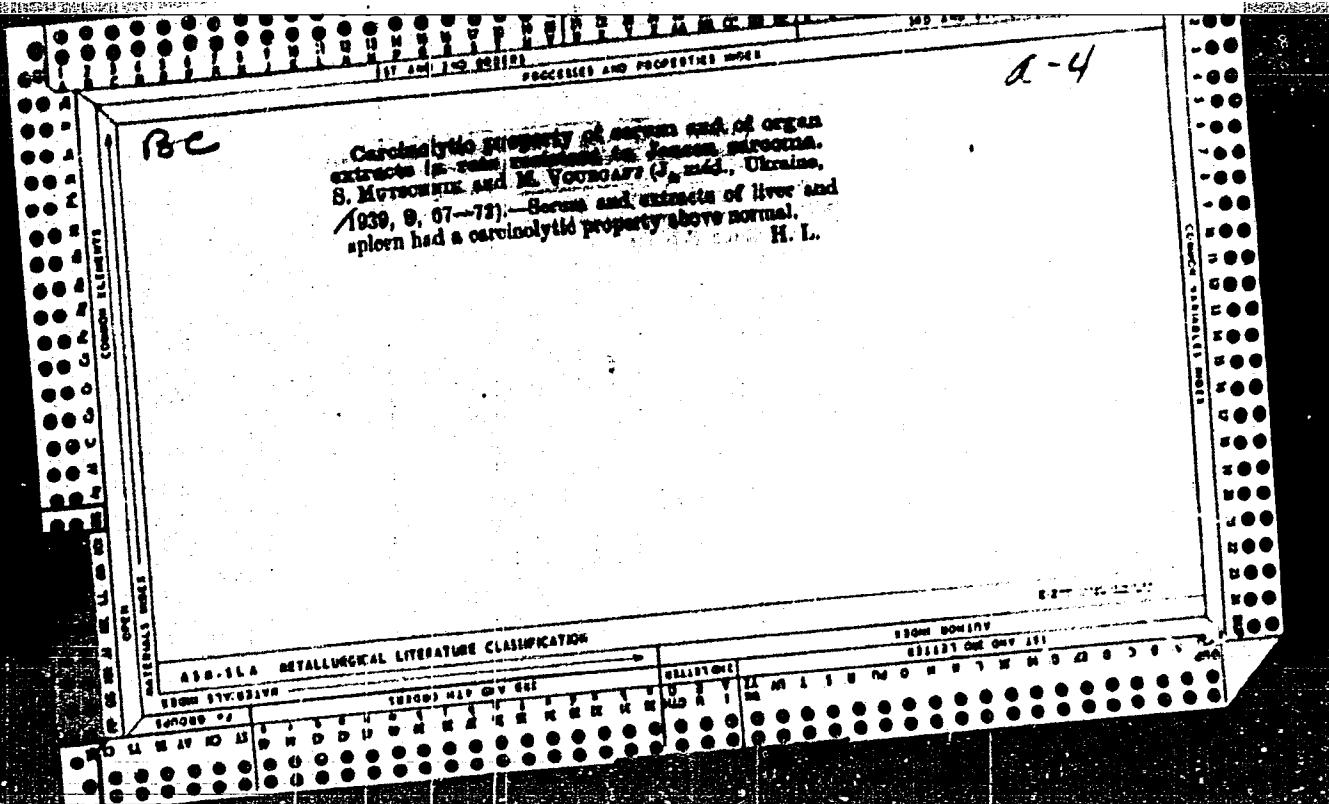
SUB CODE: MM/ SUBM DATE: 01Jul64/ ORIG REF: 012/ OTH REF: 004

nw
Card 2/2

VOKK, Ye. (g. Poltava)

Reorganization of receiving stations. Prom.koop. no.4:20
Ap '57. (MIRA 10:7)

1. Zamestitel' predsedatelya oblishveykozhpromsoyuza.
(Boots and shoes--Repairing)



DENSHCHIKOV, M.T., red.; BULGAKOV, N.I., red.; VESELOV, I.Ya., red.
VOKK, Ye.A., red.; GLAVINSKIY, D.G., red.; KRUCHININ, V.F.,
red.; CHUKMASOVA, M.A., red.; BELLKOVA, L.S., red.;
SOKOLOVA, I.A., tekhn. red.

[Manual on malt and beer production] Spravochnik po proizvod-
stvu soloda i piva. Pod obshchei red. M.T.Denshchikova. Moskva,
Pishchepromizdat, 1962. 862. (MIRA 15:11)
(Brewing)

VOVK, Yulian Aleksandrovich

[New in the wages of collective-farm workers] Novoe v
oplate truda kolkhoznikov. Moskva, Gos.izd-vo iurid.
lit-ry, 1963. 70 p. (MIRA 17:4)

VOVK, Z.K.(Khar'kov); IVANCHENKO, A.S.(Khar'kov).

Electrolyzer with a carbon partition. Khim. v shkole 12 no.1:63-64
(MIRA 10:3)
Ja-F '57. (Electrolysis)

VOK, Z.K.

VOK, Z.K. (g. Khar'kov); IVANCHENKO, A.S. (g. Khar'kov).

Demonstration of electric conductivity of melted substances and
their electrolysis. Khim. y shkole 12 no.3:39 My-Je '57.
(Electric conductivity) (MIRA 10:6)
(Electrolysis)

VOVK, Z. K.
VOVK, Z. K. (Kher'kov)

Apparatus to demonstrate the electric conductivity of molten
substances. Politekh. obuch. no.2:89 p '58.
(Electric conductivity) (MIRA 11:1)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

VOVK, Z.K.; IVANCHENKO, A.S. (g. Khar'kov)

Rectifier combined with rheostat. Khim. v shkole 13 no.4: 32-34
(MIRA 11:6)
Jl-Ag '58.
(Electric current rectifiers) (Electric rheostats)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

VQVK, Z. K., (Khar'kov)

Conducting experiments in the "bromination of benzene." Khim. v.
shkole 15 no.1:70-71 Ja-Y '60. (MIR 13:5)
(Benzene) (Bromination) (Chemistry--Experiments)

VOVK, P.S., kand.biologicheskikh nauk

Ctenopharyngodon idella and Hypophthalmichthys molitrix as
possible objects of acclimatization in Dneprodzerzhinsk Reservoir.
Vest. Dnep. nauch.-issl. inst. gidrobiol. 12:253-256 '60.
(MIRA 14:12)

(Dneprodzerzhinsk Reservoir--Carp)
(Animal introduction)

S/048/62/026/007/017/030
B104/B138

AUTHORS: Vovk, V. N., Goreva, Ye. I., Kulik, S. I., and Leuta, T. M.

TITLE: Experience gained with the operation of two АРС-10 (DFS-10) instruments in the Dneproprospetsstal' plant

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 7, 1962, 907-913

TEXT: Two DFS-10 quantometers were put into operation in November 1960 for analyzing low- and medium-alloy steels. Rapidity and accuracy were satisfactory as also was the amplifying and recording unit. The following drawbacks were found: (1) As it is not always possible to create the necessary air-conditioning a cooling unit should be fitted. (2) Problems of steel analysis cannot always be solved by low-voltage sparks and arcs. A condensed spark generator should therefore be included. (3) Due to variations in battery voltage, the calibration of the instrument is gone in the course of one day. (4) The F3Y-1 (GEU-1) generator does not provide for continuous operation of the instrument, as repairs take half the time. On medium-alloy steels accuracy of

Card 1/2

S/048/62/026/007/017/030
Experience gained with the operation ... B104/B138

analysis is almost twice that of optical methods, except for Si and Mn, where it is about the same. A 25% staff reduction can be achieved if this instrument is used in quick-analysis laboratories. There are 3 figures and 10 tables.

Card 2/2

PODLEVSKIY, A.V.; KOGAN, V.Ya.; GORCHAKOVA, Yu.P.; YELIZAROVSKIY, G.I.;
RYABOSHAPKA, A.P.; REZNIK, S.R.; GOLUBEV, T.I.; GINTSE, L.A.;
RASKIN, M.M.; ZUYENKO, P.G.; KHOMIK, S.R.; KATSNEL'SON, I.A.;
ZHILIN, S.I.; LYSENKO, M.N.; ROMANOV, B.G.; SAVENKOV, D.A.;
GIL', L.T.; LEVINA, Ye.S.; VOVKI, A.S.; POSLEDOV, F.F.

Annotations. Zhur.mikrobiol.,epid.i immun. 32 no.12:120-125 D '61.
(MIRA 15:11)

1. Iz Leningradskogo instituta usovershenstvovaniya vrachey imeni Kirova (for Podlevskiy).
2. Iz Ukrainskogo nauchno-issledovatel'skogo instituta komunal'noy gigiyeny (for Kogan).
3. Iz Voronezhskogo meditsinskogo instituta (for Gorchakova).
4. Iz Arkhangel'skogo meditsinskogo instituta (for Yelizarovskiy).
5. Iz Kiyev'skogo instituta epidemiologii i mikrobiologii (for Ryaboshapka, Reznik).
6. Iz zavoda meditsinskikh preparatov Leningradskogo myasokombinata imeni S.M.Kirova (for Golubev).
7. Iz Gosudarstvennogo kontrol'nogo instituta meditsinskikh biologicheskikh preparatov imeni Tarasevicha (for Gintse).
8. Iz Chitinskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Raskin).
9. Iz Ternopol'skogo instituta meditsinskogo instituta (for Zuyenko).
10. Iz Rostovskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Khomik).
11. Iz Chelyabinskogo meditsinskogo instituta (for Gil', Levina, Vovki, Posledov).

(IMMUNOLOGY—ABSTRACTS) (EPIDEMIOLOGY—ABSTRACTS)

VOVKOGON, A. P.

"A Physico-Chemical investigation of the Systems Indium Chloride--Chlorides of Other Metals. I. Thermal Analysis." Vovkogon, A. P. and Fialkov, Ya. A. (p. 903)

SO: Journal of General Chemistry (Zhurnal Obshchoi Khimii) 1945, Volume 15, no. 11-12.

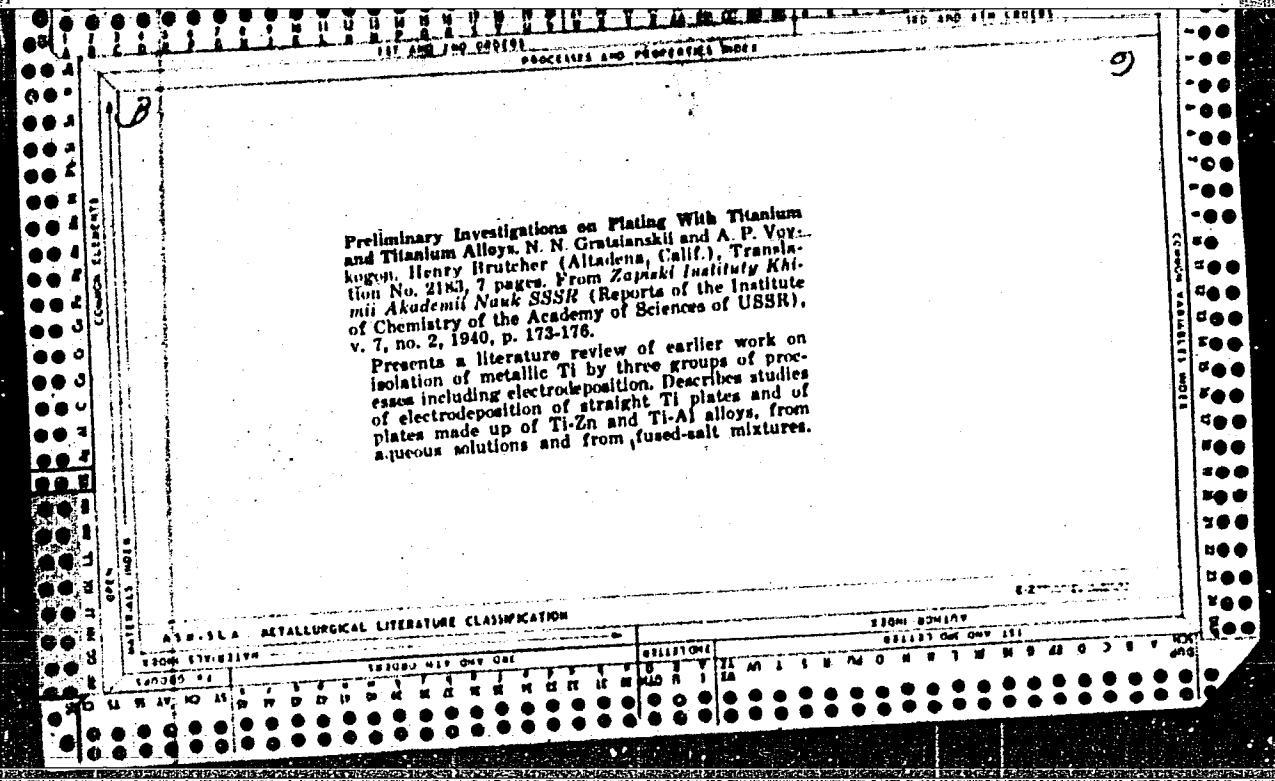
CA
Preliminary experiments on electrodeposition of titanium and its alloys. N. N. Gratsianikh and A. P. Vaykhelson. Zashch. Inst. Khim., Akad. Nauk U. R. S. S. R. 7, 179 (film Russian, 176); in German, 176-7 (1940). - Ti is deposited on a Cu cathode in a layer up to 10 thick from an

electrolyte of sulfuric acid and TiCl₄, using Pt and Zn-Ti anodes, c. d. of 0.1 amp./sq. dm. at 20°. From the fused bath AlCl₃-NaCl-NaF a Zn-Ti alloy deposited on Cu and Fe cathodes. The anode was of Zn-Ti, c. d. 0.5 amp./sq. dm. at 300°. The compn. of the alloy deposit was Zn 60 and Ti 40%.

D. Z. Kamich

ASA-ELA METALLURGICAL LITERATURE CLASSIFICATION

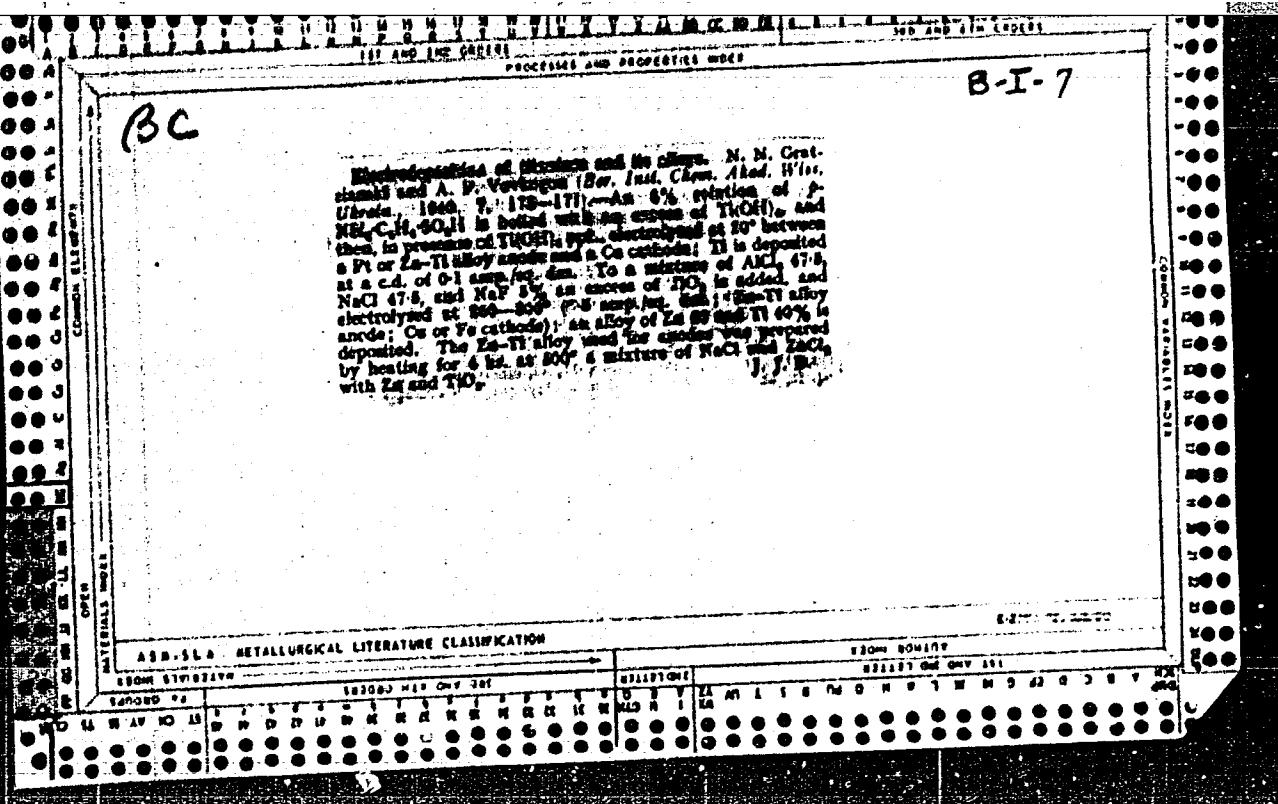
| SEARCHED | INDEXED | SEARCHED MAY ONLY USE | CLASSIFIED | SEARCHED | INDEXED | SEARCHED MAY ONLY USE |
|----------|---------|-----------------------|------------|----------|---------|-----------------------|
| X | X | X | X | X | X | X |



PRELIMINARY EXPERIMENTS ON ELECTRODEPOSITION OF TITANIUM AND ITS ALLOYS
N. N. GRATSIANS'KII AND A. P. VOVKOGN (ZAPISKI INST. KHIIM., AKADEMII NAUK
UKRAINI) IS DEPOSITED ON A COPPER CATHODE

URSS 1940, 7, 173-176; C Abs., 1941 n 35 (3530) (In Ukrainian)
Titanium is deposited on a copper cathode in a layer up to 10 thick from
an electrolyte of sulphuric acid and $Ti(OH)_2$ using platinum and zinc-
titanium anodes and a c.d. of 0.1 amp./dm.2 at 20° C. From the fused
bath $AlCl_3$ -Na Cl-Na F, a zinc-titanium alloy was deposited on copper and
iron cathodes. The anode was zinc-titanium and c.d. 0.5 amp./dm.2
at 300° C. The composition of the deposit was zinc 60 and titanium 40%.

ATA-114 METALLURGICAL LITERATURE CLASSIFICATION



P2

6

Physicochemical investigation of the systems indium chloride-chlorides of other metals. I. Thermal analysis. A. P. Novikova and Ya. A. Fialkov. *J. Gen. Chem. (U.S.S.R.)* 15, 909-10 (1945).—Thermal analysis was applied to the binary systems of $InCl_3$ with $NaCl$, $AgCl$, $CdCl_2$, $ZnCl_2$, and $PbCl_2$, and the diagrams of state were constructed. The compds. $InCl_3NaCl$ m. 730° , and $InCl_3AgCl$ m. 373° were found; also the following eutectics: in $InCl_3-NaCl$ at 704° (22 mol. % $NaCl$) and 316° (61 mol. % $NaCl$); in $InCl_3-AgCl$ at 309° (77 mol. % $AgCl$) and 320° (32 mol. % $AgCl$); in $InCl_3-CdCl_2$ at 476° (31 mol. % $CdCl_2$); in $InCl_3-ZnCl_2$ at 276° (96 mol. % $ZnCl_2$); and in $InCl_3-PbCl_2$ at 374° (72 mol. % $PbCl_2$). G. M. Kosolapoff

ASA-1A - METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED _____

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"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

Vovkotrub, V., podpolkovnik.

Frame for practicing shooting on the move. Tankist no. 5:53-54 My '56.
(Warfare--Study and teaching) (MIRA 11:3)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

DEYNEGA, Yu.F.; VOVNENKO, A.M.; VINOGRADOV, G.V.

Electrical conductance of plastic disperse systems under static
and dynamic conditions. Koll. zhur. 26 no.3:296-300 My-Je '64
(MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

AUTHORS:

Voytsekhovskiy, R.V., Vovnenko, A.M.

SOV/69-20-6-4/15

TITLE:

The Influence of the Dispersion Phase on the Results of Measurements of Hydrogen Ion Activity in Salt Solutions
(Vliyaniye dispersnoy fazy na rezul'taty izmereniy aktivnosti vodorodnykh ionov v solevykh rastvorakh)

PERIODICAL:

Kolloidnyy zhurnal, 1958, Vol 20, Nr 6, pp 697-704 (USSR)

ABSTRACT:

In the measurement of the activity of hydrogen and other ions a disparity in the series (ultrafiltrate, sol, residue) is observed [Ref 1-3]. This phenomenon is known in literature as suspension sol effect. The dependence of the suspension effect on the concentration of the suspension, the value and sign of the electrical charge has been demonstrated by experiment. In tungsten trioxide, titanium dioxide, and vanadium pentoxide the activity of hydrogen ions increases after dialysis in the series. The value and sign of the suspension effect change with the nature of the dispersion phase, the pH of the dispersion medium, and the concentration of the electrolyte in it (Table 2). For different dispersion media, the suspension effect is the same for water and 4.5 M NaCl solution. An increase in the concentration of the electrolyte in the dispersion medium in some

Card 1/2

SOV/69-20-6-4/15

The Influence of the Dispersion Phase on the Results of Measurements of Hydrogen Ion Activity in Salt Solutions

cases causes an appreciable decrease in the suspension effect (Table 3). The nature of the electrolyte has some influence, if it is changed from monovalent to bivalent cations, e.g. 3.5 M solution of $MgCl_2$ (Table 4). It is evident that the theory of membrane equilibrium cannot explain the experimental results. The suspension effect of iron oxide is also dependent on the nature of the ion in the interior electric layer. Hysteresis is observed in the electric charge of particles of the suspension during acidification. There are 4 tables, 2 sets of graphs, 1 diagram, and 8 references, 6 of which are Soviet and 2 German.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev
(Institute of General and Inorganic Chemistry of the AS UkrSSR, Kiyev)

SUBMITTED: May 12, 1957

1. Sodium chloride solutions--Properties 2. Sodium chloride solutions--Analysis 3. Hydrogen ion concentration--Chemical effects

Card 2/2

VOVNENKO, A. M.

DEYNEGA, Yu. F. [Deineha, IU.F.]; VOVENKO, A.M. [Vovnenko, O.M.]

Investigation of elektrokinetic phenomena in plastic hydrocarbon systems. Dop.AN URSR no.6:769-771 '61.
(MIRA 14:6)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
Predstavлено академиком AN USSR A. V. Dumanskim.
(Hydrocarbons—Electric properties)

DEYNEGA, Yu.F. [Deineha, IU.F.]; VOVNENKO, A.M.

Syneresis of plastic lubricants in strong electric fields.
Dop. AN URSR no.8:1052-1054 '61. (MIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii AN USSR. Pred-
stavleno akademikom AN USSR A.V. Dumanskim [Dumans'kyi, A.V.].
(Lubrication and lubricants)
(Electric fields)

VOYTSEKHOVSKIY, R.V.; VOVHENKO, A.M.

Effect of the dispersed phase on results of hydrogen ion activity
measurements in salt solutions [with summary in English]. Koll.
zhur. 20 no.6:697-704 N-D '58. (MIRA 12:2)

1. Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev.
(Colloids)
(Hydrogen-ion concentration—Measurement)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

VOVNJAHO L.V., dots.

Scientific session on the study of poliomyelitis. Zdrav.
Kazakh. 17 no.8:51-52 '57. (MIRA 12:6)
(POLIOMYELITIS--CONGRESSES)

AZAROVA, Ye.A.; VOVNYANKO, I.V.; EYGINSON, V.Ye.

Clinical aspects and surgical treatment of late spinal complications
(cholesteatomas) following tuberculosis meningitis treated by the
endolumbar administration of streptomycin. Zdrav. kazakh. 22 no.1:
15-17 '62. (MIRA 15:3)

1. In kafedry khirurgii fakul'teta usoveshenstvovaniya vrachey
Kazakhskogo meditsinskogo instituta i Kazakhskogo instituta
okhrany materinstva i detstva.

(SPINAL CORD--TUMORS) (STREPTOMYCIN)
(MENINGES--TUBERCULOSIS)

EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology July 59

3192. INCIDENCE OF POLIOMYELITIS IN CHILDREN IN THE TOWN AND
DISTRICT OF ALMA-ATA IN 1954-57 (Russian text) Vovnyanko I. V.
Kazakh Res. Inst. for Protect. of Mother and Child, Kazakh - ZDRA-

VOOKHR. KAZ. 1958, 18/9 (48-56) Tables 9

A clinical and epidemiological analysis is presented. Children of preschool age
constituted 92% of patients and more than half of these were between 1 and 3 yr.
of age. Aparalytic cases constituted 22.3% of the total.

Horn - Halle/S. (L, 8)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9

VOYTSEKHOVSKIY, R.V.; VOVNENKO, A.M.

Suspension effect. Ukr.khim.zhur. 24 no.5:608-617 '58.
(MIEA 12:1)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Colloids)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

KIM, L.N.; VOVNYANKO, I.V.; SAMOKHVALOV, N.G.

Organization of the medical care for children with sequelae following
poliomyelitis. Zdrav. Kazakh. 21 no.10:49-51 '61. (MIA 15:2)

1. Glavnnyy vrach bol'nitsy "Aksay" (for Kim). 2. Zaveduyushchiy
nevrologicheskim otdeleniyem Instituta organizatsii meditsinskoy
pomoshchi detyam (for Vovnyanko). 3. Bol'nitsa "Aksay" (for
Samokhvalov). (POLIOMYELITIS)

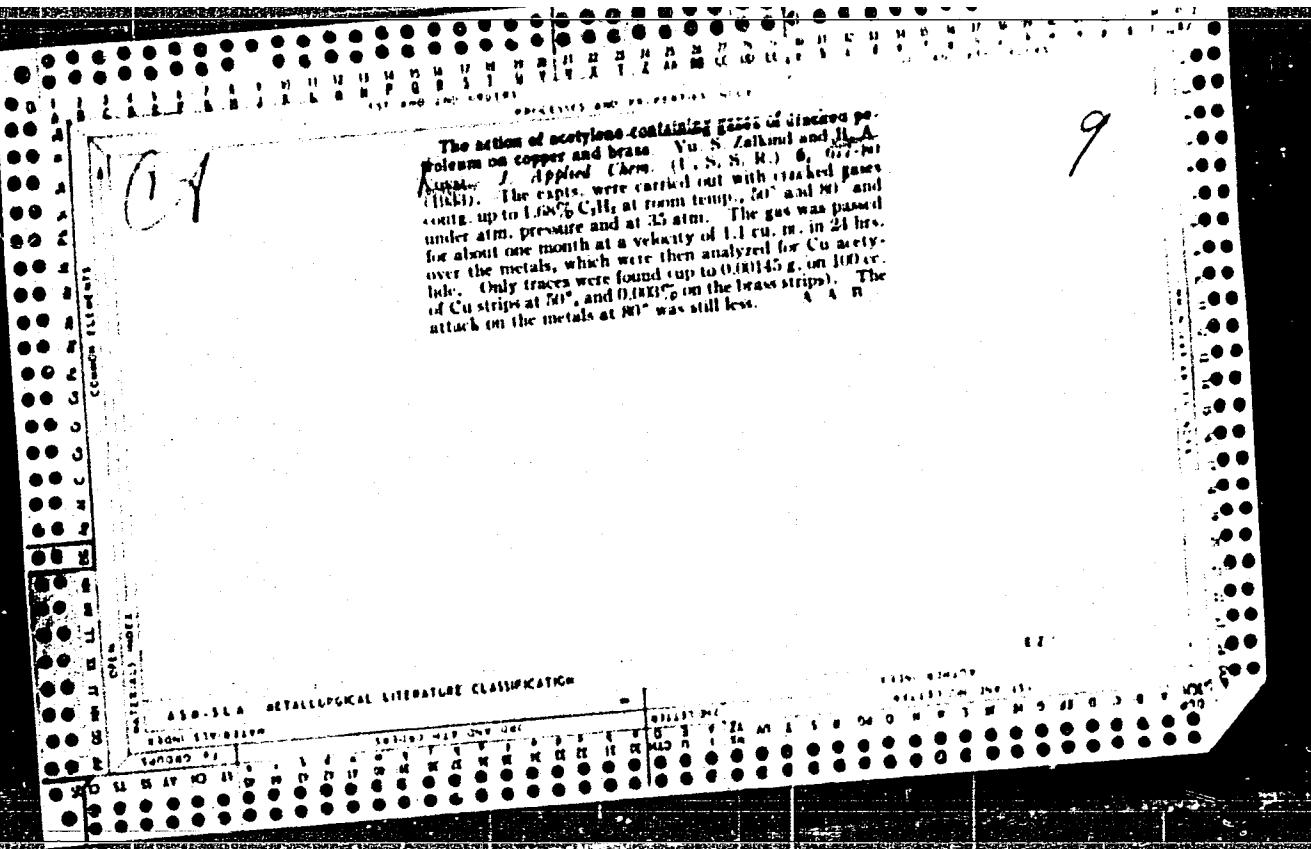
"APPROVED FOR RELEASE: 08/09/2001

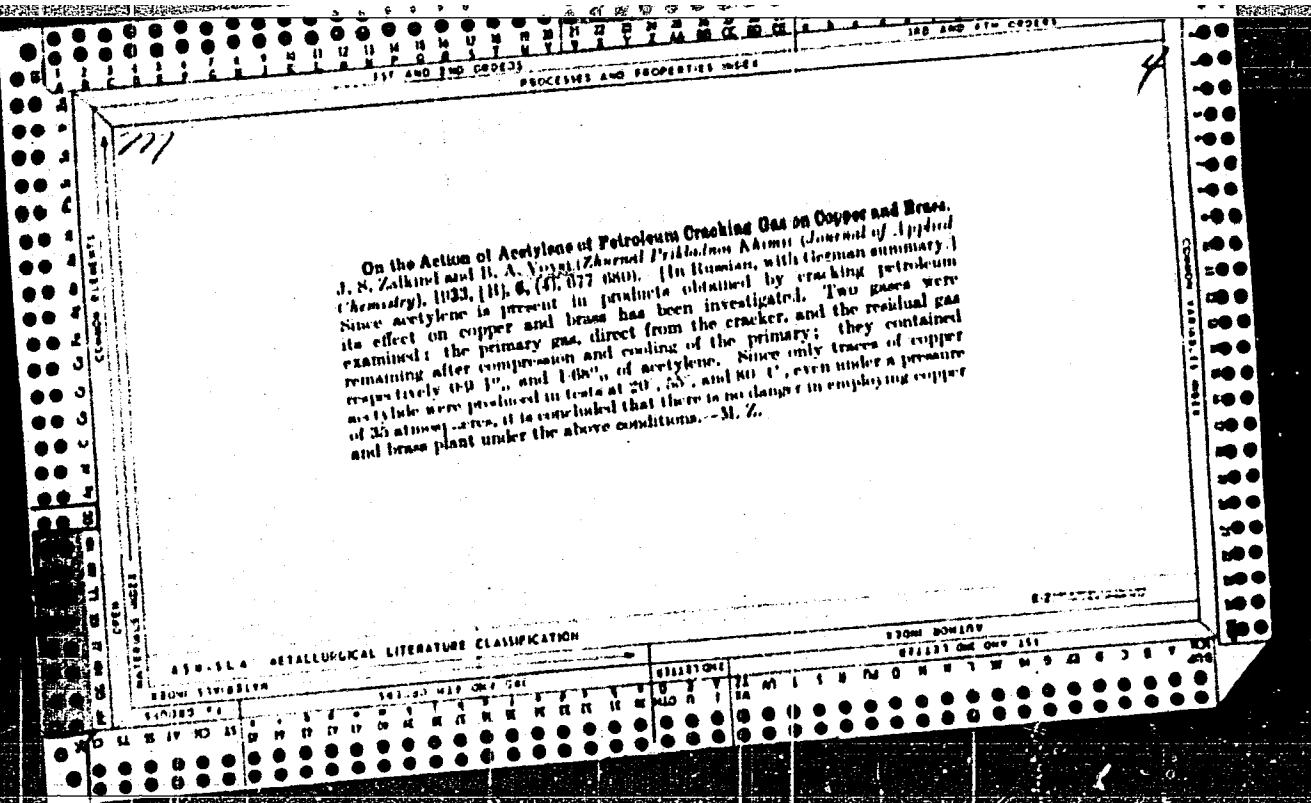
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APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110013-9"

The action of acetylene-containing gases of cracked petroleum on copper and brass. Yu. S. Zalkind and B. A. Yuzef. *J. Applied Chem. (U. S. S. R.)* 6, 671-674 (1933). The expts. were carried out with cracked gases containing up to 1.68% CuH at room temp., 50° and 80° and under atm. pressure and at 35 atm. The gas was passed over the metals, which were then analyzed for Cu acetylid. Only traces were found (up to 0.00145 g. on 100 cc. of Cu strips at 50°, and 0.003% on the brass strips). A. A. B. The attack on the metals at 80° was still less. A. A. B.





33206
S/191/62/000/002/007/008
B101/B110

15-1124

AUTHORS: Smirnov, V. K., Vovshina, G. Z.

TITLE: The new "Arzamit-6" cement

PERIODICAL: Plasticheskiye massy, no. 2, 1962, 69 - 71

TEXT: A cement on the basis of binding agent and graphite, which is stable in aggressive media at temperatures to above 200°C, is described. The cements Arzamit-4 and Arzamit-5 developed so far are stable only up to 170°C. Arzamit-6 consists of phenol-formaldehyde resin and organosilicon compounds at a certain ratio (as binding agent), graphite powder (as filler), and an acid catalyst which accelerates hardening of the cement in air. The heat stability test (heating for 230-500 hr at 220-250°C) showed a tensile strength of about 40-50 kgf/cm², in thick layers (21-23 mm) of 25-35 kgf/cm². The waterproofness was tested on 5 mm thick platelets at 1-2 atm water pressure. Unheated cement specimens, as well as specimens after heating for 39 hr at 220-280°C, did not let through any water in the course of 2-3 days. The cement was stable for 200-300 hr to Card 1/2

33286

S/191/62/000/002/007/008
B101/B110

The new "Arzamit-6" cement

the effect of the following aggressive media at their boiling temperatures: 70% acetic acid, 20 and 40% sulfuric acid, hydrochloric acid of all concentrations, phenyl acetic acid, dichloro ethane, concentrated orthophosphoric acid, mixture of orthophosphoric acid and hydrochloric acid. Since the acid catalyst of the cement might corrode the steel apparatus, various prime coats were tested: resorcin phenol-formaldehyde resin with graphite, $\Phi\Gamma-9$ (FG-9) varnish with aluminum, etc. Best results were obtained with organosilicon varnish (mixture of organosilicon resin FG-9 with intermediate product type $\Phi\chi-02$ (FKh-02)) dissolved in toluene or xylene with filler. Three coats were applied, and the apparatus heated after the first coating for 10-12 hr, after the second and third coatings for 5-6 hr at $130-150^{\circ}\text{C}$. Finally, a 13-liter apparatus of steel 3 was lined with graphite plates by means of the cement. The lining was not affected by phenyl acetic acid at 250°C , by 20-30% hydrochloric acid (31 days) at room temperature, by triethylene glycol (23 days) at $220-250^{\circ}\text{C}$, and by 20% hydrochloric acid at boiling temperature. There are 1 table and 1 Soviet reference.

Card 2/2

VOVSI, A.M., inzh.; GRINBLAT, M.M., inzh.; BORSHCHEVSKAYA, Ye.R., inzh.

Determining phosphorus in ferrotungsten and molybdenum in
ferromolybdenum. Trudy LMZ no.9:264-267 '62. (MIRA 16:6)
(Iron-Tungsten alloys--Analysis) (Tungsten--Analysis)
(Iron-molybdenum alloys--Analysis) (Molybdenum--Analysis)